



MachineQ MQflex 4s Sensor

Multi-Sensor Device

The MQflex 4s is the LoRaWAN® certified multi-sensor device that reports temperature and humidity to Crunchtime Ops Execution through a MachineQ Area 8c gateway. Engineered in-house by MachineQ's LoRaWAN experts and designed with modularity and growth in mind, this compact device enables a wide range of use cases from a single, cost-effective SKU. It is remotely configurable, upgradeable, and proven at scale for enterprise deployments.

The MQflex multi-sensor device supports a wide range of use cases from a single, long-lasting, replaceable battery.

CONFIGURABLE FOR SENSING

- Temperature
- Humidity
- Water leak
- Push button activity

FEATURES AND CAPABILITIES

- Supports a wide operating range of -40°C to +60°C
- Supports up to 10 years* of continuous use from a single, replaceable battery
- Engineered by MachineQ for enterprise-grade use with high accuracy and superior RF performance
- Supports firmware updates over-the-air (FUOTA) via BLE and LoRaWAN for superior performance and ongoing security enhancements
- Supports remote configuration via downlink, providing control and flexibility at scale
- IP65 rated enclosure, FDA approved plastics, and UL listed for safe use in harsh and highly regulated environments
- Edge processing and filtering provide low latency and extended battery life

*Varies based on firmware version and configuration.

TECHNICAL SPECIFICATIONS

Sensors

Temperature	Sensing range: -40°C to +60°C Accuracy: ±0.5°C from -40°C to +60°C
Humidity	Sensing range: 0% to 100% RH Accuracy: ±10% RH over 20% to 80% RH at 25°C
Water Leak Detector	Adjustable sensitivity
Push Button	Reports button activity

TECHNICAL SPECIFICATIONS (continued)

Battery, RF, and Environmental

Battery	Replaceable Saft LS14500. Estimated life up to 10 years*
RF	LoRaWAN® US915, EU868, and AS923. NFC. 2.4 GHz Low Energy
Operating Temperature	-40°C to +60°C
Operating Humidity	0% to 100% RH
Enclosure Rating	IP65
Dimensions (L x W x H)	64.5 x 39.5 x 27 mm

Installation and Certification

Installation	Adhesive. Optional magnetic mounting bracket, stainless-steel ball chain, or screw mount
Certification	UL 62368-3, LoRaWAN, RoHS, FDA approved food safe plastic, and optional NIST traceable calibration
Regional Compliance	FCC Part 15 Class B (FV3-AR-A, FV3-4S-B) CE and UKCA (FV3-4E-B) RCM and R-NZ (FV3-4A-B)

ORDERING INFORMATION

Product Number	LoRaWAN Frequency
FV3-AR-A	US915
FV3-4S-B†	US915
FV3-4A-B	AS923
FV3-4E-B	EU868

*Varies based on firmware version and configuration. †Supports an external ULT temperature probe.